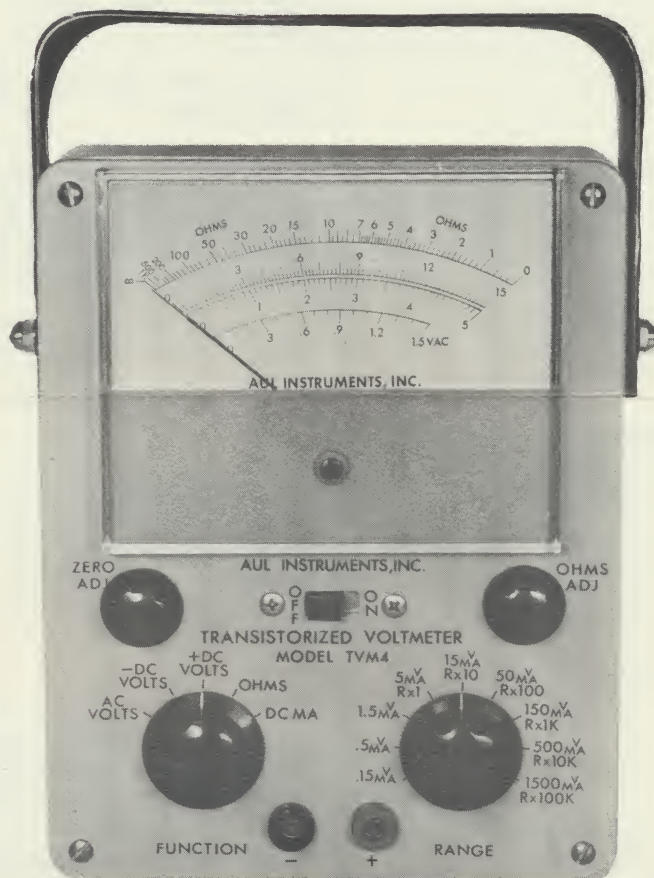


TRANSISTORIZED VOLT-OHM-MILLIAMMETER MODELS TVM 4



REPRESENTED BY
TESCO ASSOCIATES
200 WEST 41ST STREET, NEW YORK, N.Y. 10018
TEL. A. 1-800-235-1234
915 / 452-4565

**TRANSISTORIZED VERSION OF COMBINED VACUUM TUBE VOLTMETER (VTVM)
AND VOM WITHSTANDS 500 TIMES OVERLOAD ON VOLTMETER**

FEATURES

- High Input Impedance - 2 Megohms
Per Volt low ranges, 36 Megohms
high ranges
- Sensitive Voltage Scales-150 MV D-C Full
Scale
- Meter Movement Burn-out Proof - Solid
State Protection
- 30 Ranges for Measurement of Voltage,
Current and Resistance
- Linear, Stable, Accurate, Repeatable
- Solid State Circuitry
- Long Battery Life- Less than 1 Milliampere
Amplifier Battery Drain

APPLICATIONS

- General Purpose Laboratory VOM
- Measurements in High Impedance Circuits
- Low Voltage Measurements on Solid State
Circuits
- Floating Meter Isolated from A-C Ground
- Field Service
- Differential Measurements at High Potential
- Tautband meter

AUL INSTRUMENTS, INC / **24-13 BRIDGE PLAZA NORTH L.I.C., N.Y. 11101**
212 7296565

**MODEL TVM 4
SPECIFICATIONS**

\$69.95 FOB L.I.C., N.Y.

Voltage Ranges	
D-c	0-0.15V, 0.5V, 1.5V, 5V, 15V, 50V, 150V, 500V, 1500V
A-c	0-1.5V, 5V, 15V, 50V, 150V, 500V, 1500V
Resistance Ranges	R x 1 (10 ohm center), R x 10 (100 ohm center), R x 100 (1K center), R x 1K (10 K center), R x 10K (100 K center), R x 100K (1 meg center)
D-c Current	0-0.15 ma, 0.5 ma, 1.5 ma, 5 ma, 15 ma, 50 ma, 0.15 amp, 0.5 amp, 1.5 amp
Accuracy	
D-C Volts	± 3% of full scale
A-c Volts	± 5% of full scale
Current	± 3% of full scale
D-c Resistance	± 3° linear arc
Input Impedance	
D-c Volts	0.15 volt range, greater than 500K 0.5 volt range, greater than 1.5 meg 1.5 volt range, greater than 5 meg 5.0 volt range, greater than 17 meg Other ranges, greater than 36 meg
A-c Volts	Approx 250 K res. shunted by 200 pf
Meter Movement	50 µa full scale, tautband movement
Scale Length	
Dimensions	3.8 inches 6-7/8 L 5-1/4 W 2-1/4 D
Net Weight (With Batteries)	2-3/4 lbs.

DESCRIPTION

THE AUL INSTRUMENTS TRANSISTORIZED VOLT-OHM-MILLIAMMETER combines and exceeds the most desirable features of conventional multimeters and vacuum tube voltmeters. A unique solid state design achieves high input impedance, stability and sensitivity with a battery life approaching the battery's normal shelf life. The meter is virtually burn-out proof, offering protection against damage to the transistors and to the meter movement. The meter sensitivity provides an order of magnitude improvement over that of meters in common use, and an even higher degree of improvement in stability. One percent resistors and a tautband meter movement together with a solid state amplifier, the linearity of which is independent of supply voltage, insure accurate performance. Minimum power dissipation, long life components and protective circuitry insure that the instrument will hold its calibration under the most adverse operating conditions in the hands of inexperienced operating personnel.

AUL INSTRUMENTS, INC/ 24-13 Bridge Plaza North, L.I.C., N.Y. 11101

TRANSISTORIZED MILLIVOLT-OHM-MICROAMMETER MODEL TVOM4

REPRESENTED BY
TESCO ASSOCIATES
2002 TEALL AVE., SYRACUSE, N.Y. 13206
TED A. HENDEL, Field Engineer
315 / 463-4566

FEATURES

- ☐ High Input Impedance
3 Megohms/Volt Low Ranges
36 Megohms on High Ranges
- ☐ Multifunctioned
A-C, D-C, Voltage, Current,
Resistance and Temperature
- ☐ Long Battery Life
Approaches Battery Shelf Life
- ☐ Sensitive
150 Millivolts D-C and
1.5 Microamperes Full Scale
- ☐ Fool Proof
Protection for Amplifier and
Meter Movement
- ☐ Value
Low Cost, Stable, Accurate



APPLICATIONS

- ☐ General Purpose Laboratory VOM or VTVM
- ☐ Measurements in High Impedance Circuits
- ☐ Low Voltage Measurements on Solid State Circuits
- ☐ Floating Meter Isolated From A-C Ground
- ☐ Field Service or Production Line
- ☐ Differential Measurements at High Potential
- ☐ Temperature Measurement



AUL INSTRUMENTS, INC. / 24-13 BRIDGE PLAZA NORTH, L.I.C., N.Y. 11101 212 RA 9-6565

SPECIFICATIONS

Ranges

Voltage Ranges

D-C	0 - 0.15V, 0.5V, 1.5V, 5V, 50V, 500V, 1500V
A-C	0 - 1.5V, 5V, 50V, 150V, 500V

Resistance Ranges	R x 1 (10 ohm center), R x 10 (100 ohm center), R x 1K (10K center), R x 100K (1 meg center)
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D-C Current	0 - 1.5ua, 0.15ma, 15ma, 0.15amp, 1.5amp
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Temperature	-40° to +100° C
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Accuracy

D-C Volts	±3% of full scale
A-C Volts	±5% of full scale
Current	±3% of full scale
D-C Resistance	±3° linear arc

AC Response

Frequency	Greater than 100KHz
Calibration	Responds to peak value of the input, calibrated in RMS volts for a sine wave input

Input Impedance

D-C Volts	0.15 volt range, greater than 500K 0.5 volt range, greater than 1.5 meg 1.5 volt range, greater than 5 meg 5.0 range, greater than 17 meg Other ranges, greater than 36 meg
A-C Volts	Greater than 1 megohm at 1Hz

Miscellaneous

Movement	50ua full scale, taut band movement
Floating Input	May be operated 1500 volts above ground
Power	9 volt trans radio type (Mallory TR146x), 1.5 volt "C" cell (Eveready 935)
Dimensions	6-7/8 inches long 5-1/4 inches wide 2-1/4 inches deep
Net Weight	2-3/4 pounds with batteries
Price	\$55.00 FOB L.I.C., N.Y.

DESCRIPTION

THE AUL INSTRUMENTS TRANSISTORIZED MILLIVOLT-OHM-MICROAMMETER combines and exceeds the most desirable features of conventional multimeters and vacuum tube voltmeters. A unique solid state design achieves high input impedance, stability and sensitivity with a battery life approaching the battery's normal shelf life. The meter is virtually burn-out proof, offering protection against damage to the transistors and to the meter movement. The meter sensitivity provides an order of magnitude improvement over that of meters in common use, and an even higher degree of improvement in stability. One percent resistors and a tautband meter movement together with a solid state amplifier, the linearity of which is independent of supply voltage, insure accurate performance. Minimum power dissipation, long life components and protective circuitry insure that the instrument will hold its calibration under the most adverse operating conditions in the hands of inexperienced operating personnel.